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Abstract

This contribution provides a solution for bit length control of regression based affine merge candidate derivation method. Certain thresholds are defined to reduce the bit length of the input data to the linear regression process. With the proposed changes, simulation result is as following:

RA: {}; LB: {}.

Introduction

The Regression based Motion Vector Field (RMVF) derivation method for affine merge candidate was proposed in JVET-AA0107 [1] and was adopted. However, no restrictions were defined to control the dynamic range of linear regression's input data. Therefore, in worst case, overflow can occur during the regression process. Taking one of the regression matrices which is built upon delta coordinate x/y as an example. Naming it matrix A, we have

A =

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